[3] 4.1

(11)
$$log \frac{\pi_i}{l-\pi_i} = log \exp(G_0 + G_1x_i)$$
 $= G_0 + G_0 x_i$

(2) Systematic componet $\exp(G_0 x_i)$
 $f = \frac{\exp(G_0 x_i)}{l+\exp(G_0 x_i)}$
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 $f = \frac{\exp(G_0 x_i)}{l+\exp(G_0 x_i)}$
 $f = \frac{\exp(G_0 x_i)}{l+\exp(G_0 x_i)}$

(3) $f = \frac{1}{2} \int_{\mathbb{R}^2} \frac{f(f_0 x_i)}{f(f_0 x_i)} = \frac{1}{2} \int_{\mathbb{R}^2} \frac{f(f_0 x_i)}{f(f_0 x_i)} \int_{\mathbb{R}^2} \frac{f(f_0 x_i)}$

 $\frac{2^2l}{2660c} = -\sum_{i=1}^{n} \frac{2\pi_i}{2\beta^{7}} \times i = -\sum_{i=1}^{n} \pi_i (|-\pi_i|) \times i \times i$

```
均4.2
                                      B, e Bot Bit - e Bot Bit
(1) \quad \mathcal{Y} = F(\mathcal{L})
         = 5x fleidt
         =\int_{-\infty}^{x}\left(\beta_{1}\exp\left(\left(\beta_{0}+\beta_{1}t\right)-\exp\left(\beta_{0}+\beta_{1}t\right)\right)dt\quad\left(\beta_{1}>0\right)
    == i Z = exp(Bo+B,t) z x < z . dZ = B, exp(Bo+B,t) dt,
   \begin{array}{c|c} t & -\infty \longrightarrow c \\ \hline z & 0 \longrightarrow exp(\beta_0 + \beta_1 x) \end{array}
        =\int_{0}^{\exp(\beta_{0}+\beta_{1}x)}\beta_{1}e^{x}p(\beta_{0}+\beta_{1}t)e^{-\frac{1}{2}}\left[\beta_{1}e^{x}p(\beta_{0}+\beta_{1}t)\right]dz
        = Sexp(Bo+Bix) e-2 dz
        = |-\exp\{-\exp(\beta_0 + \beta_1 \alpha)\}|
(2) # = 3, exp(B0+B,x) exp[-exp(B0+B,x)] >0 -(a)
     単調用数であることが言えて、F(-0)=0,F(0)=1だから
     (0,1)区間のではなを出わする。
(3) 2(4) = log[-log(1-7)] 273 z.
           9(4) = log [-log(exp[-exp(Bo+Bix)])]
                   = log [exp(Bo+B1x)]
                   = B o + B , X .
```

1 4.3

 $\frac{1}{\sqrt{2}} \int_{-2\pi}^{z} \int_{-\infty}^{z} e^{-\frac{t^{2}}{2}} dt \, dt \, erf(x) = \frac{2}{\sqrt{\pi}} \int_{0}^{x} e^{-u^{2}} du$ $\frac{1}{\sqrt{\pi}} \int_{-\infty}^{z} e^{-\frac{t^{2}}{2}} dt \, dt \, erf(x) = \frac{2}{\sqrt{\pi}} \int_{0}^{x} e^{-u^{2}} du$ $\frac{1}{\sqrt{\pi}} \int_{0}^{z} e^{-\frac{t^{2}}{2}} dt \, dt \, erf(x) = \frac{2}{\sqrt{\pi}} \int_{0}^{x} e^{-u^{2}} du$ $\frac{1}{\sqrt{\pi}} \int_{0}^{z} e^{-\frac{t^{2}}{2}} dt \, dt \, erf(x) = \frac{2}{\sqrt{\pi}} \int_{0}^{x} e^{-u^{2}} du$ $\frac{1}{\sqrt{\pi}} \int_{0}^{z} e^{-\frac{t^{2}}{2}} dt \, dt \, erf(x) = \frac{2}{\sqrt{\pi}} \int_{0}^{x} e^{-u^{2}} du$ $\frac{1}{\sqrt{\pi}} \int_{0}^{z} e^{-\frac{t^{2}}{2}} dt \, dt \, erf(x) = \frac{2}{\sqrt{\pi}} \int_{0}^{x} e^{-u^{2}} du$ $\frac{1}{\sqrt{\pi}} \int_{0}^{z} e^{-\frac{t^{2}}{2}} dt \, dt \, erf(x) = \frac{2}{\sqrt{\pi}} \int_{0}^{x} e^{-u^{2}} du$ $\frac{1}{\sqrt{\pi}} \int_{0}^{z} e^{-\frac{t^{2}}{2}} dt \, dt \, erf(x) = \frac{2}{\sqrt{\pi}} \int_{0}^{x} e^{-u^{2}} du$ $\frac{1}{\sqrt{\pi}} \int_{0}^{z} e^{-\frac{t^{2}}{2}} dt \, dt \, erf(x) = \frac{2}{\sqrt{\pi}} \int_{0}^{x} e^{-u^{2}} du$ $\frac{1}{\sqrt{\pi}} \int_{0}^{z} e^{-\frac{t^{2}}{2}} dt \, dt \, erf(x) = \frac{2}{\sqrt{\pi}} \int_{0}^{x} e^{-u^{2}} du$ $\frac{1}{\sqrt{\pi}} \int_{0}^{z} e^{-\frac{t^{2}}{2}} dt \, du$

 $\frac{\xi_{37}}{5^{-1}(4)} = \sqrt{2} \operatorname{er} f^{-1}(24-1)$ $= \sqrt{2} \operatorname{er} f^{-1}(24-1)$ $= \sqrt{2} \operatorname{er} f^{-1}(24+\frac{1}{2}\operatorname{er} f(\frac{x-\mu}{\sqrt{2}}))-1)$

= 12 . 12 8

= 21-11

(erfを定義しなくても、豆」(ターメールは目明では?)